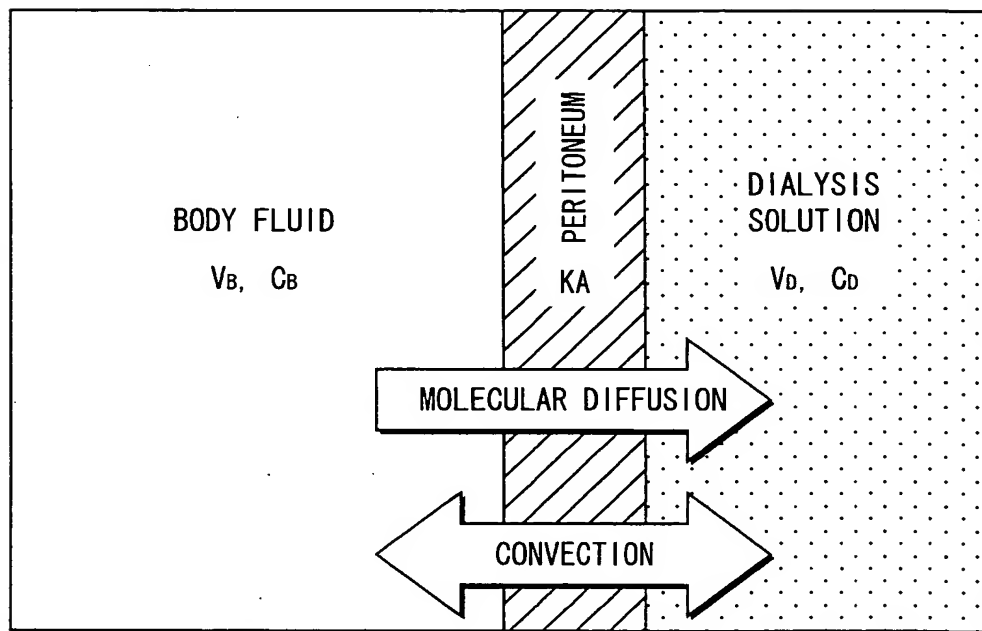
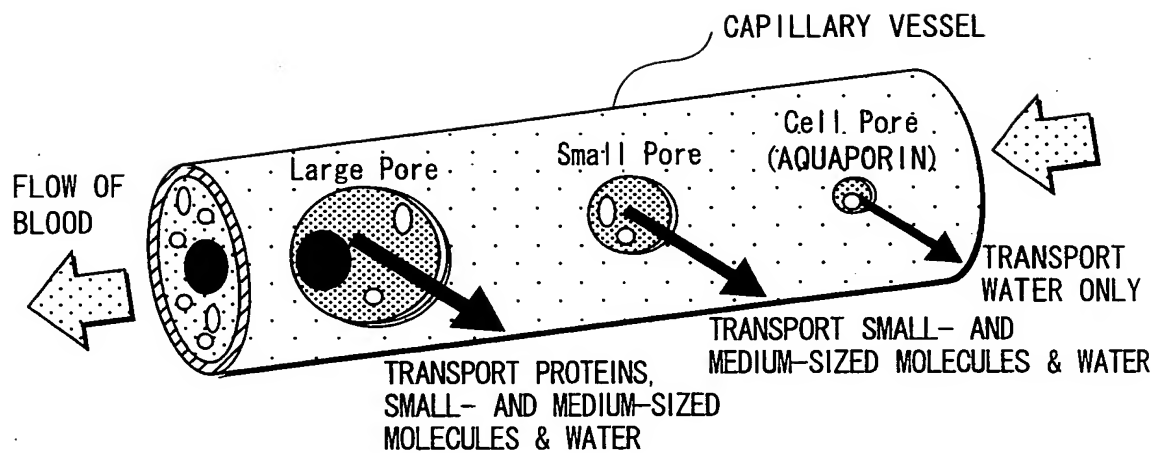


FIG. 1



MASS TRANSFER MECHANISM IN PERITONEAL DIALYSIS

FIG. 2



MASS TRANSFER PHENOMENON ACROSS A PERITONEUM,
BASED ON THREE-PORE THEORY (YAMASHITA, 1998, PARTIALLY MODIFIED)

FIG. 3

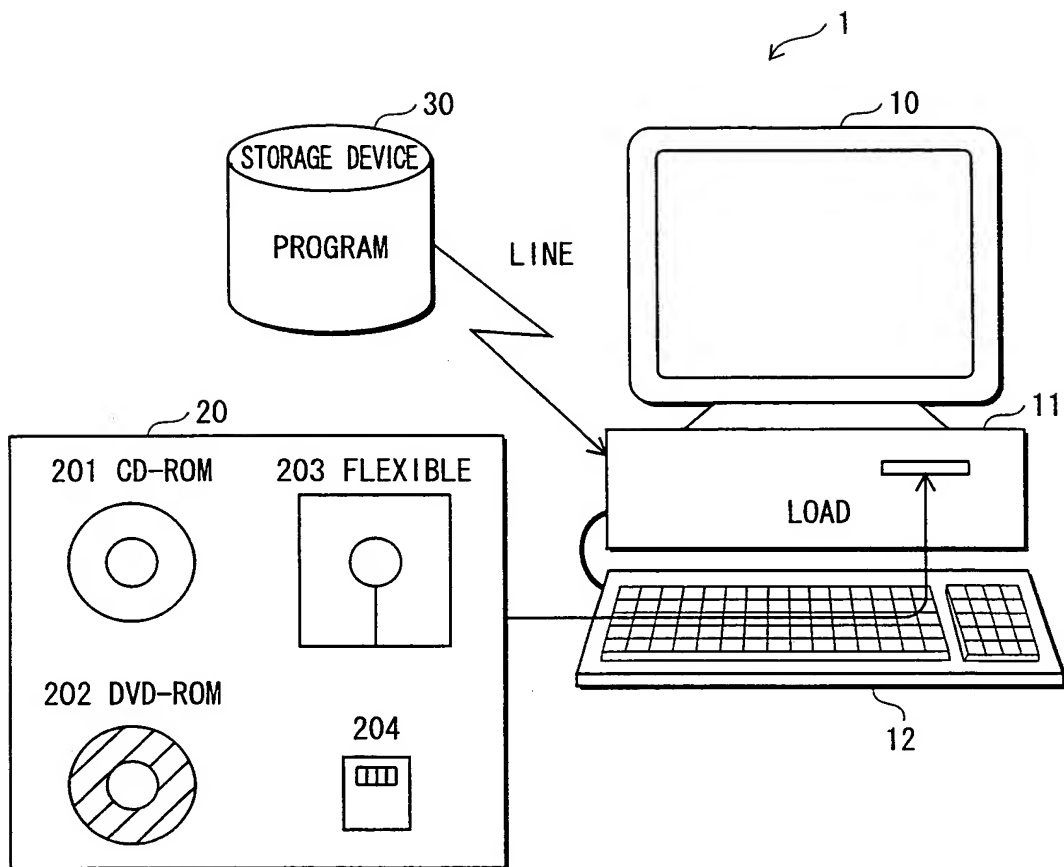


FIG. 4

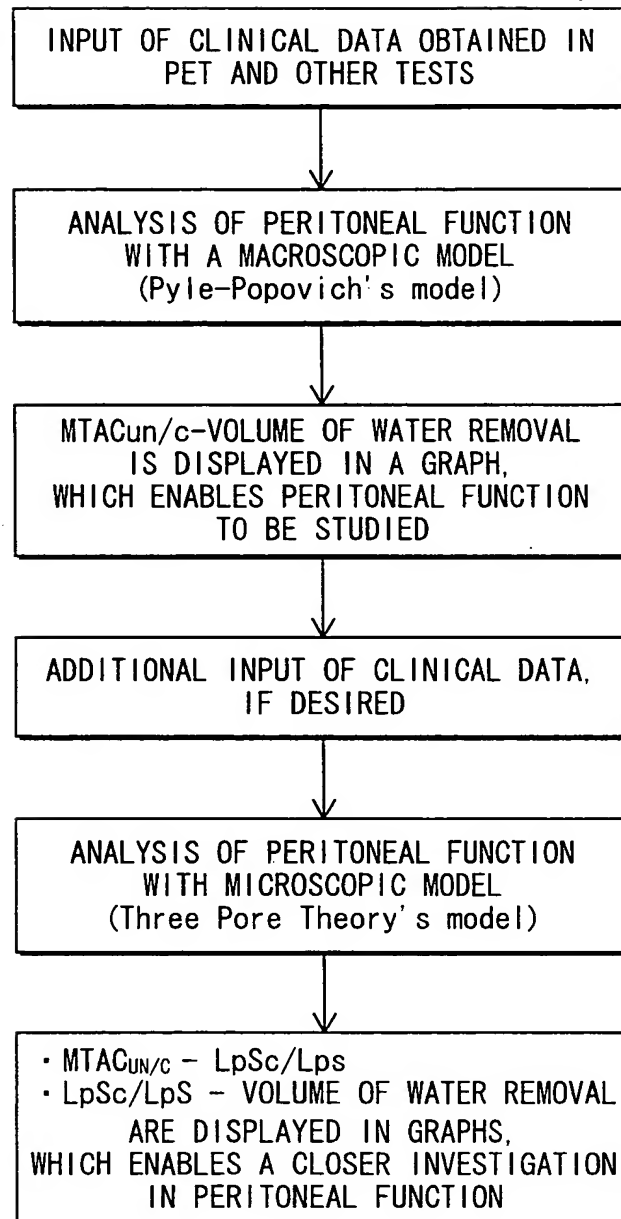


FIG. 5

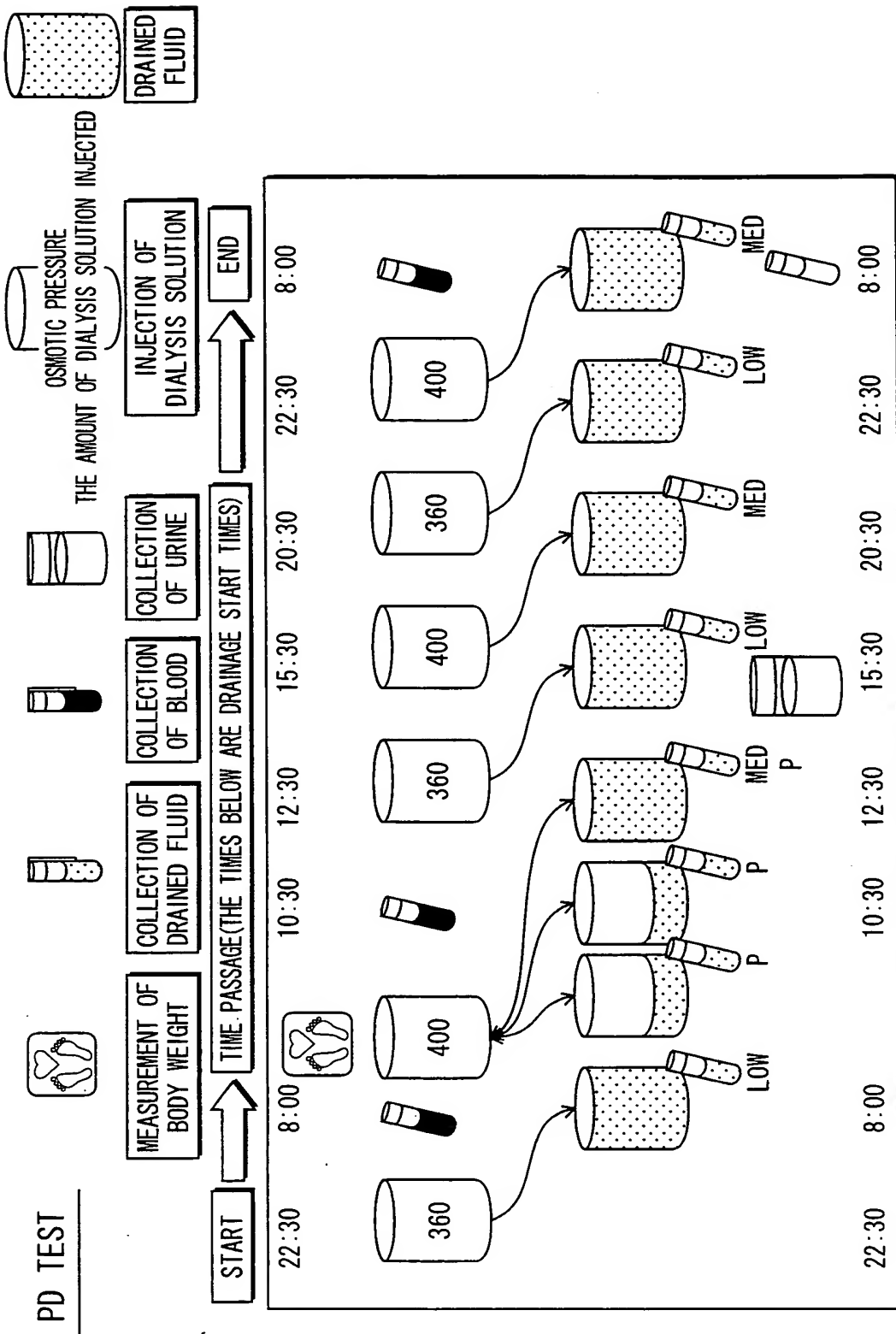


FIG. 6

PERITONEAL FUNCTION TEST INPUT DATA ITEMS

DATE (YY/MM/DD)	YEAR	MONTH	DAY	~	MONTH	DAY
FAMILY NAME /GIVEN NAME	SEX		M/F	CHART NO.		
BIRTH DATE	YEAR	MONTH	DAY	HEIGHT (cm)	WEIGHT (kg)*	
*: MEASURED WITH AN EMPTY PERITONEAL CAVITY						
URINE VOLUME (mL)		URINARY UREA NITROGEN (mg/dL)		URINARY CREATININE (mg/dL)		
URINARY PROTEIN (mg/dL)		URINARY SODIUM (mEq/L)				

BLOOD SAMPLE 1 (AM 8:00)		BLOOD SAMPLE 2 (PET-2)		BLOOD SAMPLE 3 (AM 8:00)	
TOTAL PROTEIN (g/dL)		TOTAL PROTEIN (g/dL)		TOTAL PROTEIN (g/dL)	
ALBUMIN (g/dL)		ALBUMIN (g/dL)		ALBUMIN (g/dL)	
SERUM CREATININE (mg/dL)		SERUM CREATININE (mg/dL)		SERUM CREATININE (mg/dL)	
UREA NITROGEN (mg/dL)		UREA NITROGEN (mg/dL)		UREA NITROGEN (mg/dL)	
GLUCOSE (mg/dL)		GLUCOSE (mg/dL)		GLUCOSE (mg/dL)	
SODIUM (mEq/L)		SODIUM (mEq/L)		SODIUM (mEq/L)	
CHLORIDE (mEq/L)		CHLORIDE (mEq/L)		CHLORIDE (mEq/L)	

SYSTEM	PERISATE	TW • ST	CIRCUIT WEIGHT	g
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FIG. 7

BAG EXCHANGE	SUGAR CONCENTRATION IN MEDICAL SOLUTION	TOTAL WEIGHT OF MEDICAL SOLUTION	START TIME OF DRAINAGE	WEIGHT AFTER DRAINAGE	WEIGHT AFTER PRIMING	FINISH TIME OF INJECTION
	g/dL	g	hr:min	g	g	hr:min
22:30			:			:
8:00			:			:
PET-0			(:)	—	—	:
PET-2	—	—	(:)	—	—	—
PET-4	—	—	(:)			:
15:30			:			:
20:30			:			:
22:30			:			:
8:00	—	—	:		—	—

TEST OF DRAINED FLUID	PROTEIN CONCENTRATION	ALBUMIN	CREATININE	UREA NITROGEN	GLUCOSE	SODIUM	CHLORIDE
	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mEq/L	mEq/L
—	—	—	—	—	—	—	—
D ₁							
D ₂ (PET0)							
D ₃ (PET2)							
D ₄ (PET4)							
D ₅							
D ₆							
D ₇							
D ₈							

FIG. 8

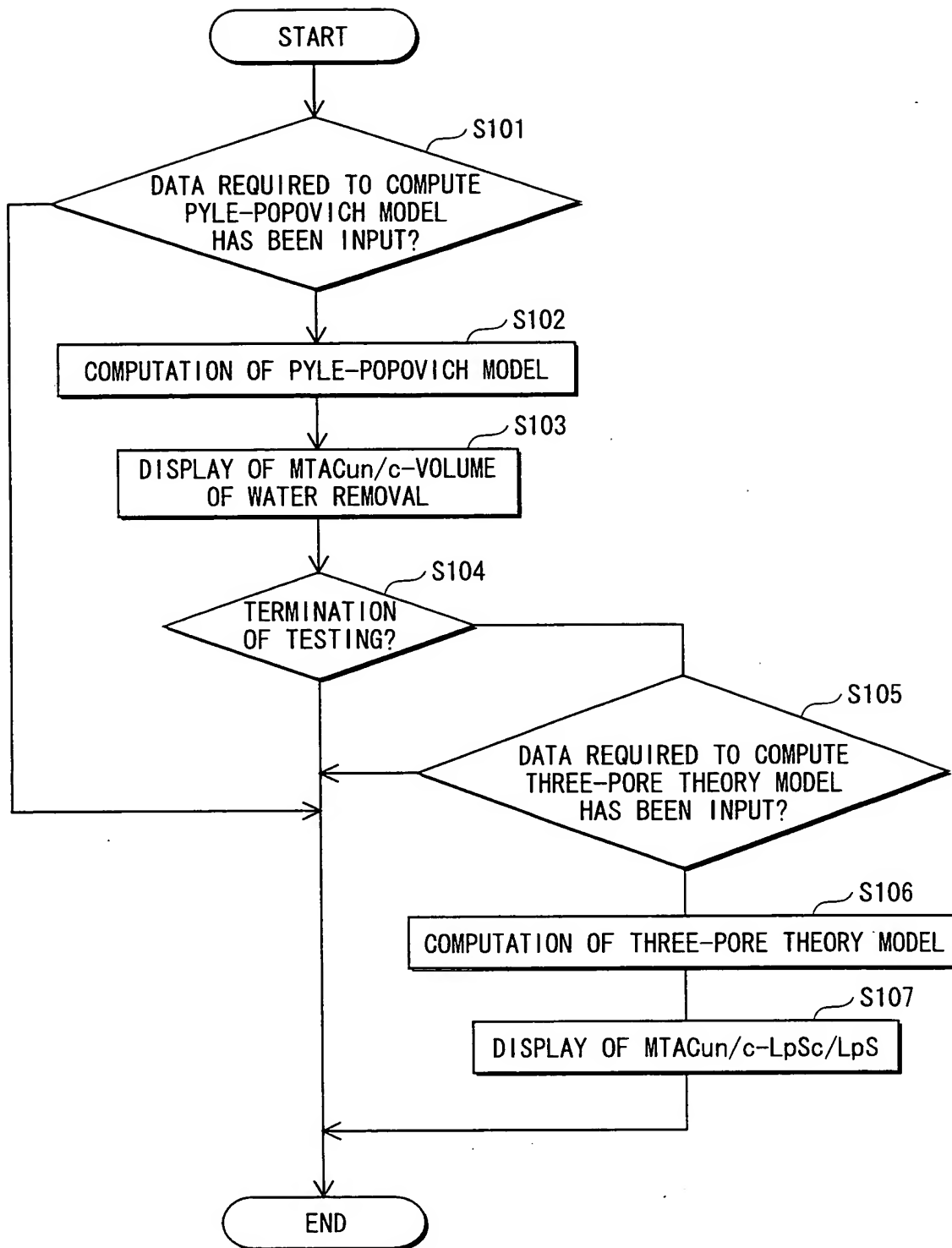


FIG. 9

MTAC_{UN}/c-VOLUME OF WATER REMOVAL OF 2.5% DIALYSIS SOLUTION

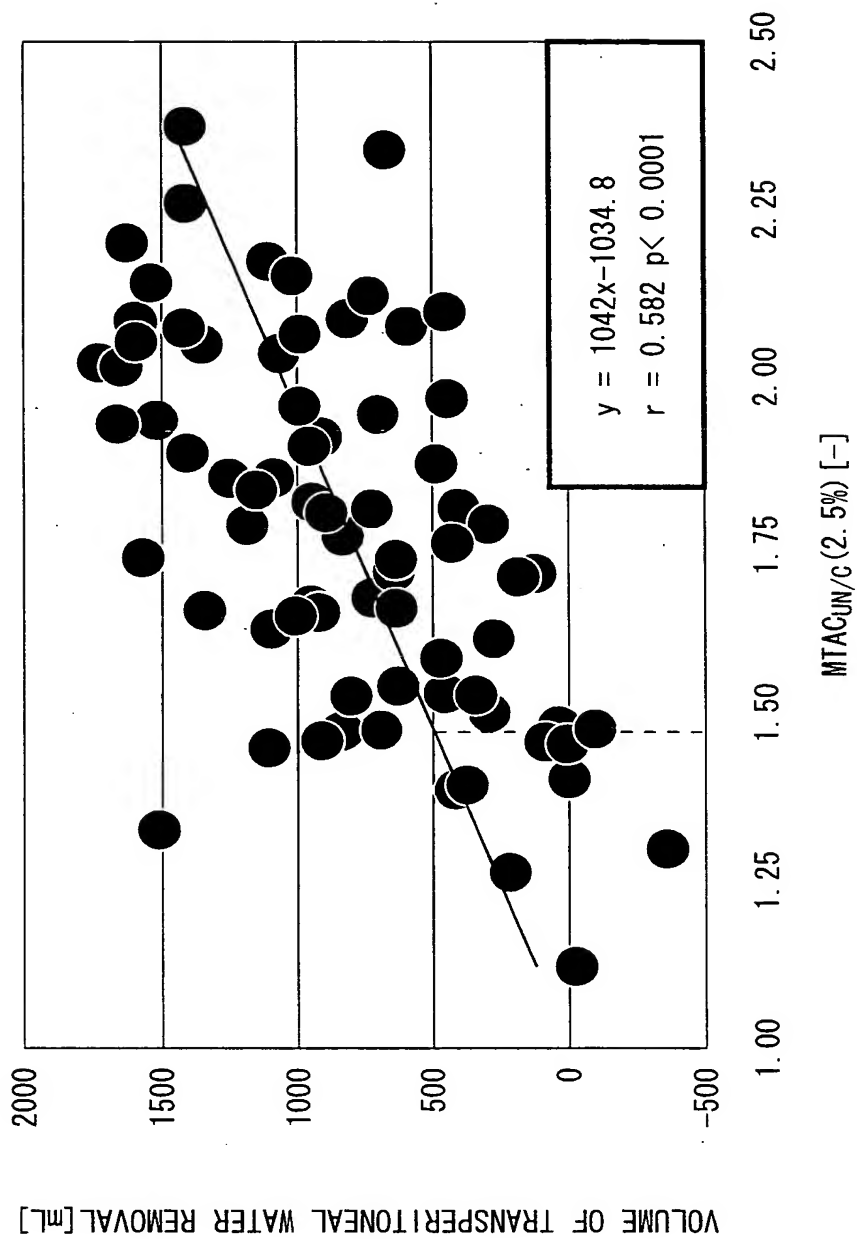


FIG. 10

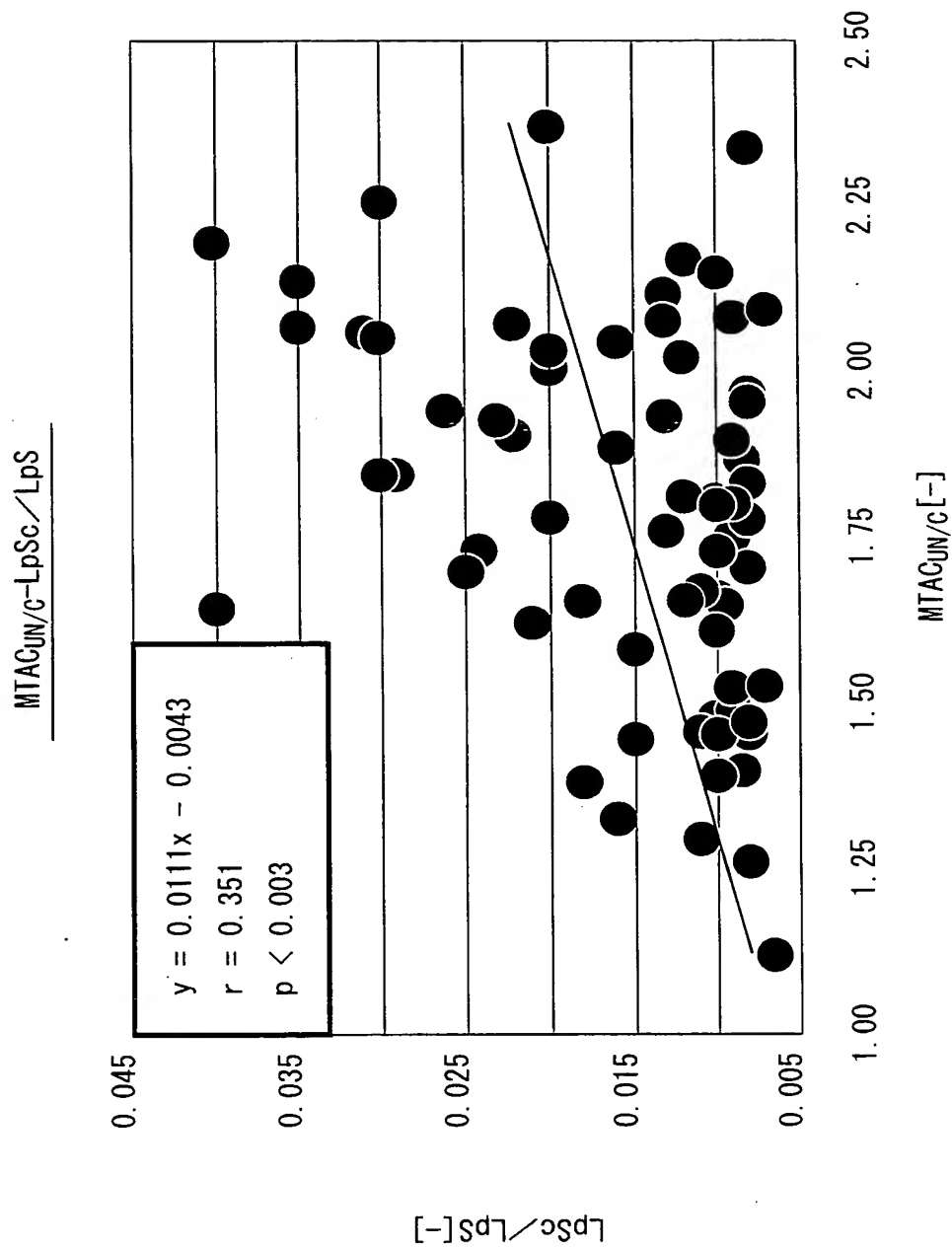


FIG. 11

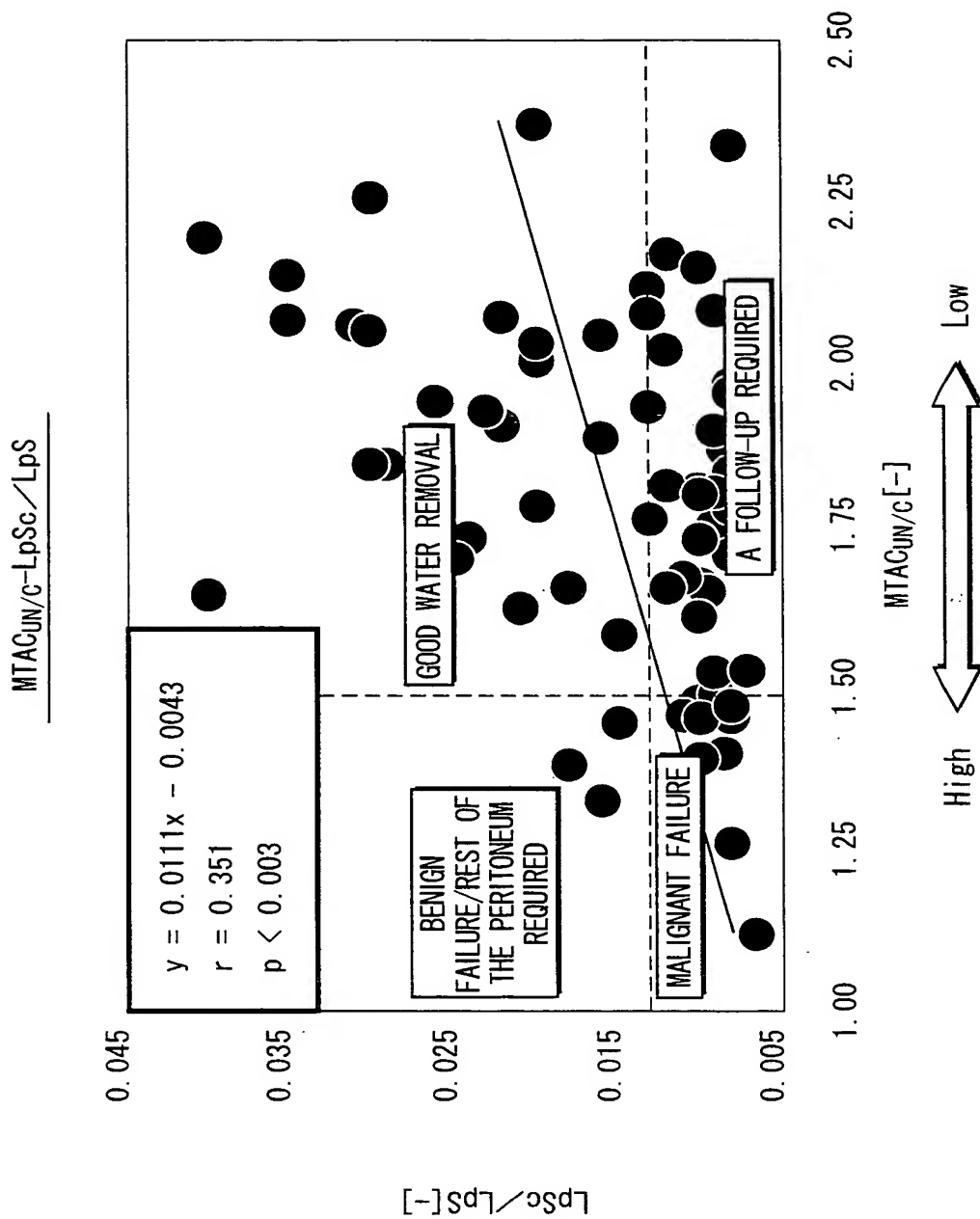


FIG. 12

$LpSc/LpS$ -VOLUME OF TRANSFERITONEAL WATER REMOVAL

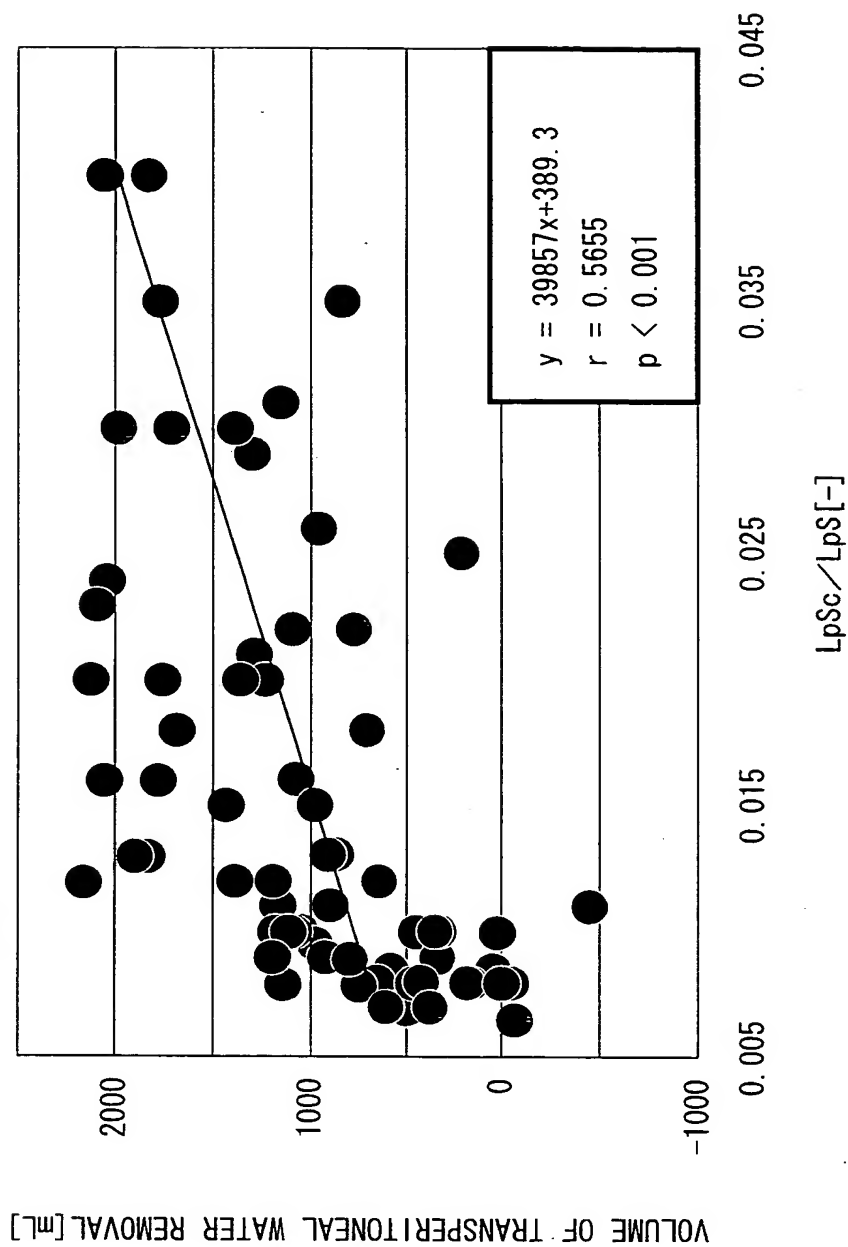


FIG. 13

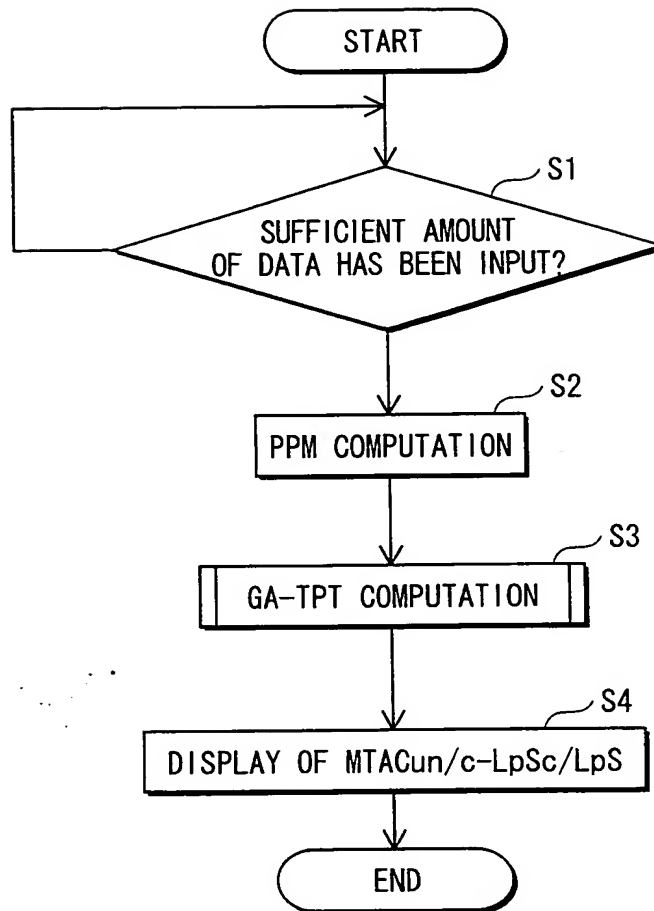
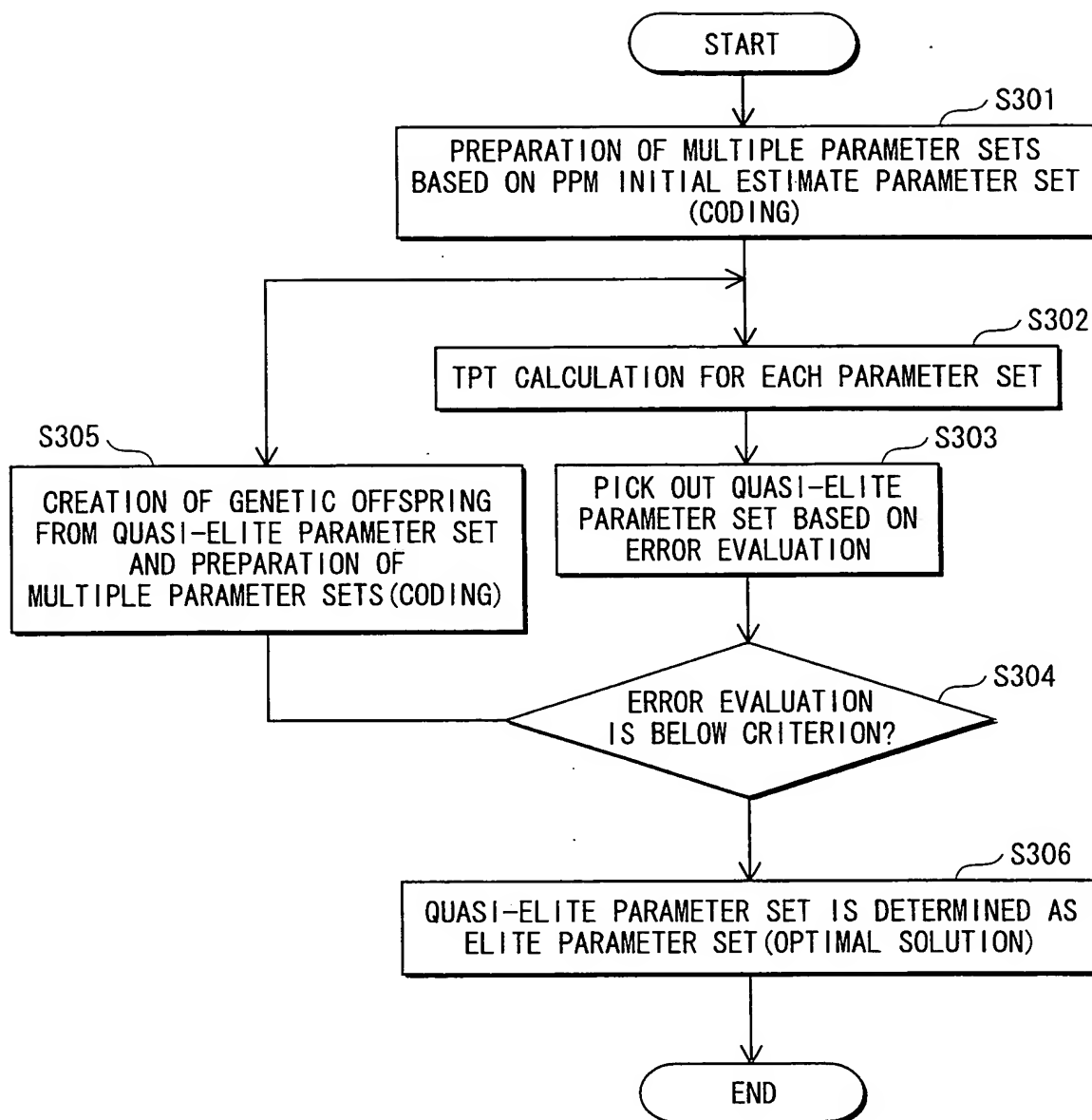


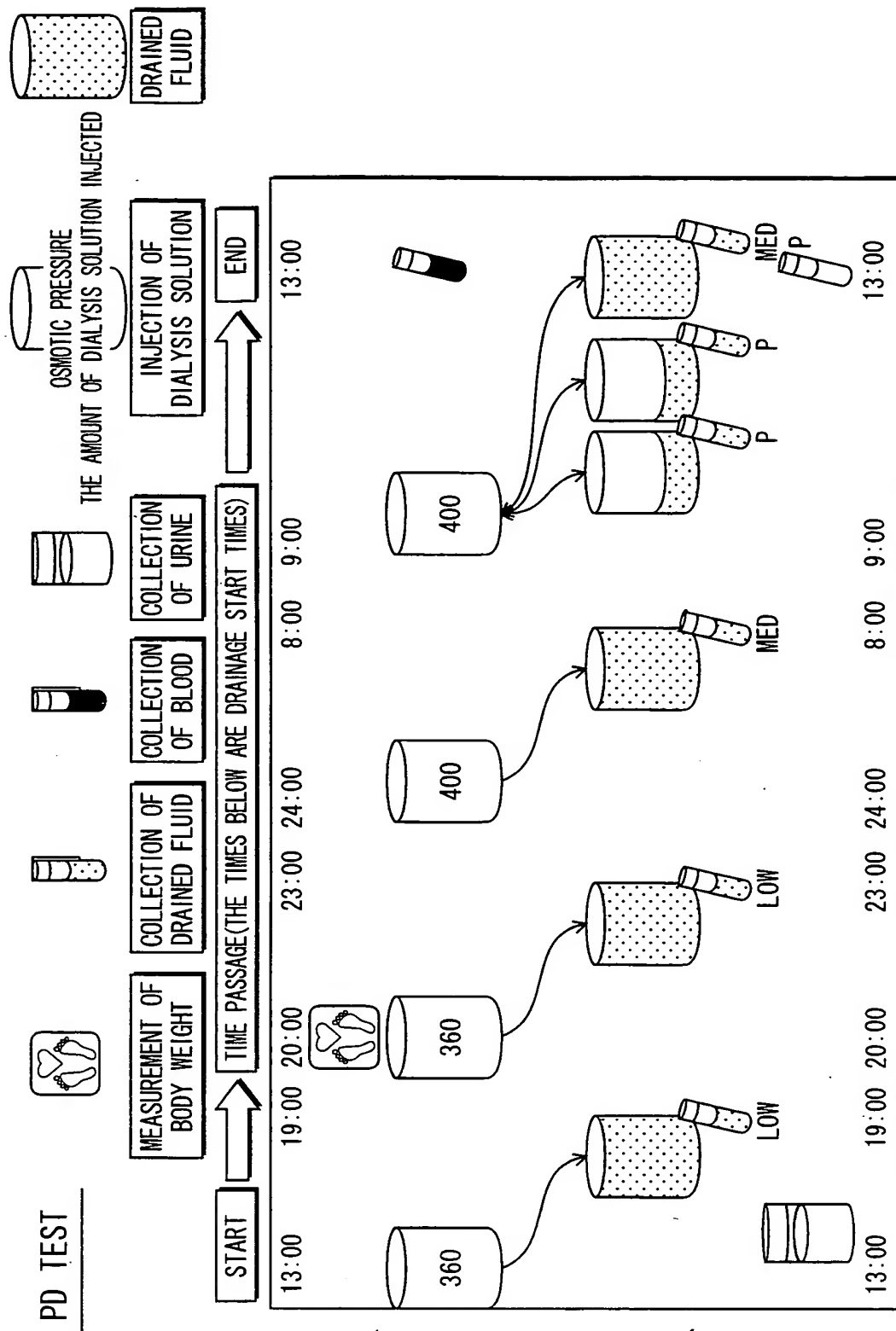
FIG. 14



The diagram illustrates the PD test process in five steps:

- MEASUREMENT OF BODY WEIGHT**: An icon of a person standing on a scale.
- COLLECTION OF DRAINED FLUID**: An icon of a small vial containing fluid.
- COLLECTION OF BLOOD**: An icon of a small vial containing blood.
- COLLECTION OF URINE**: An icon of a urine collection bag.
- INJECTION OF DIALYSIS SOLUTION** and **OSMOTIC PRESSURE**: An icon of a dialyzer with arrows indicating the flow of dialysis solution and osmotic pressure measurement.

Below the steps, a large box contains the text: **THE AMOUNT OF DIALYSIS SOLUTION INJECTED**.



LOW: LOW OSMOTIC PRESSURE
MED: MEDIUM OSMOTIC PRESSURE
P : SAMPLE USED FOR PET

FIG. 16

ITEM	FIRST EMBODIMENT	SECOND EMBODIMENT
DIALYSIS SOLUTION EXCHANGES	6 TIMES	4 TIMES
BLOOD COLLECTIONS	3 TIMES	ONCE
DRAINED FLUID SAMPLES	8 SAMPLES	6 SAMPLES
BLOOD COLLECTION SAMPLES	3 X 2 SAMPLES	1 X 2 SAMPLES
MEASUREMENT OF VOLUME OF DRAINED FLUID	6 BAGS	4 BAGS
URINE COLLECTIONS (24hr)	ONCE	ONCE
URINE COLLECTION SAMPLES	1 SAMPLE	1 SAMPLE